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(LABORATORY ITEM) 1017

REVISED

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Naval oceanographic office, Washington, D.C.

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LABORATORY ITEM 1017
REVISED

A Summary of Sediment Size and Composition (exclusive
of Organic Matter) of Surface Sediment off South Vietnam.

FLOOD Project

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SUMMARY

This report presents a revision to the sediment size and composition data previously submitted within Laboratory Item 1017, dated March 1970.

Statistical parameters are recalculated (Mode through Kurtosis). Phi values are exactly greater by 1 compared to the previous output which was due to a necessary shift in scale origin.

EXPLANATION OF COMPUTER PRINT OUT SHEET

SEDIMENT SIZE AND COMPOSITION DATA

Information under the following terms is derived from NAVOCEANO M-sheets (field data).

CRUISE. Identification number.

SAMPLE. Number assigned by originator.

LATITUDE. Degrees and minutes.

LONGITUDE. Degrees and minutes.

TAKEN. Date of collection.

CORER TYPE. Number 7 indicates Piston Corer (Ewing).

LENGTH. Length of core sample.- When appropriate and known the entry is the volume of the sample in liters.

PENETRATION. Depth of penetration of sampler.

DEPTH. Uncorrected sonic sounding, in meters [M] or fathoms [FMS].

Information under the following terms is generated in the laboratory.

ANALYZED. Date of laboratory analysis.

ITEM NO.-CORE NO. Laboratory project number (4 digits) - followed by core (or sample) number (3 digits) assigned in laboratory.
Note: An attempt is made to use SAMPLE number of M-sheet (see above) also as CORE NO.

SUBSAMPLE I.D. In cores, number equals the depth of the top of the subsample in cm; top of core = 0. In other samples number is same as sample number.

BOT. OF INTERVAL (CM). In cores, number equals the depth of the bottom of the subsample.

INTERPOLATION. States interval at which original data are interpolated.

PHI, MM. Numbers designate upper (= greater size) limits of Wentworth's size classes of particle diameters.

SEDIMENT TYPE. Textural classification of sample (computer derived) based on Shepard's (1954) model.

GRAVEL, SAND, SILT, CLAY. Percent of total sample weight within the four size classes.

Class ranges are:	Gravel	coarser than 2 mm
	Sand	2 to 0.062 mm
	Silt	0.062 to 0.004 mm
	Clay	finer than 0.004 mm

MODE. Designated position of modes (in phi-units) and respective particle concentration (in percent).

MEDIAN. Size (in phi-units) equaled by exactly half of the sample.

MEAN (MM) (PHI). The geometric mean of the distribution expressed in millimeters, and phi-units, respectively.

STAN DEV. Standard deviation. A measure of the degree of spread or dispersion of the distribution about the mean, expressed in phi-units.

$$s = \sqrt{\sum f(x_i - \bar{x})^2 / 100}$$

SKEWNESS. A measure of the asymmetry of the distribution. Positive values denote skewness of the distribution toward the fine particles, negative values denote skewness toward the coarse particles. A normal distribution has the skewness of 0.

$$\text{SKEWNESS} = 1/100 2s^{-3} \sum f(x_i - \bar{x})^3$$

KURTOSIS. A measure of the peakedness of the distribution. Positive values denote a "leptokurtic" distribution, or a distribution more "peaked" than normal. Negative values denote a "platykurtic" distribution, or a distribution more "flat" than normal. A normal curve has a kurtosis of 0.

$$\text{KURTOSIS} = 1/100 s^{-4} \sum f(x_i - \bar{x})^4 - 3$$

CaCO₃. Percent calcium carbonate of the total sample weight as determined by gasometric method.

COLOR. Wet sediment color, based on the Geological Society of America Rock-Color Chart, determined in the laboratory.

DOM CONSTITUENT. Dominant constituent (s) comprising the sample assemblage.

SEC CONSTITUENT. Secondary constituent (s) comprising the sample assemblage. Numbers, where given, denote % concentration. Abbrev.: TRG = Terrigenous, SHL = shell, QTZ = quartz, GSTR = gastropods, ECH = echinoderms, FRAG = fragments, MAT = material.

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CRUISE 914929 SAMPLE 604 LATITUDE 10 15.5 N LONGITUDE 108 46.0 E
 CORER TYPE DLS LENGTH (CM) .0 PENETRATION(CM) .0 DEPTH (M) 64.0
 TAKEN 24JUL69 MARSDEN 50.0
 ANALYZED 24NOV69

ITEM NO.-CORE NO.: 1017-01

SUBSAMPLE I.D. 60.¹⁴
 BOT. OF INTERVAL (CM) .0

INTERPOLATION .250

PHI	MM	(WEIGHT	PERCENT	OF	SEDIMENT	IN	EACH	SIZE	CLASS
<-2	>4.000	.00							
-2	4.000	.26							
-1	2.000	.56							
0	1.000	1.87							
1	.500	1.70							
2	.250	10.18							
3	.125	35.88							
4	.062	12.48							
5	.031	5.59							
6	.016	6.23							
7	.008	4.62							
8	.004	4.73							
9	.002	3.55							
>10	<.001	12.36							

SEDIMENT TYPE SAN SIL CLAY

GRAVEL (>2 MM)	.26
SAND (.062-.200MM)	50.19
SILT (.004-.062MM)	29.92
CLAY (<.004 MM)	20.63
MODE CLASS 1	3.50
MODE FREQ. 1	35.88
MODE CLASS 2	6.50
MODE FREQ. 2	6.23
MEDIAN	4.06
MEAN (MM)	.033
MEAN (PHI)	4.93
STAN DEV	2.57
SKENNESS	.38
KURTOSIS	-.21
CACO3	15.70
NITROGEN KJ	.000
ORG CARBON	.00
COLOR	5Y4/2
DOM CONST	TRG-MAT. 95
SEC CONST	FORAMS 5

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SEDIMENT SIZE AND POSITION DATA

CRUISE 914929 SAMPLE 609 LATITUDE 10° 8.0' N LONGITUDE 107° 23.0' E
 CORER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 34.0
 TAKEN 25MAY69 MARSDEN SG. L 0
 ANALYZED 24NOV69

ITEM NO. • CORE NO.: 1017- 02

SUBSAMPLE I.D. 60.9
BOT. OF INTERVAL(CM) .0

INTERPOLATION .250

PHI MM WEIGHT PERCENT OF SEDIMENT IN EACH SIZE CLASS ↑

<-2	>4.000	.00
-2	4.000	.48
-1	2.000	.81
0	1.000	2.64
1	.500	13.47
2	.250	80.47
3	.125	.77
4	.062	.22
5	.031	.00
6	.016	.28
7	.008	.04
8	.004	.02
9	.002	.34
>10	<.001	.45

SEDIMENT TYPE SAND

GRAVEL (>2 MM)	.49
SAND (.062-.2.00MM)	98.15
SILT (.004-.062 MM)	.54
CLAY (<.004 MM)	.83

MODE CLASS 1	2.50
MODE FREQ. 1	80.47

MEDIAN	2.40
MEAN (MM)	.192
MEAN (PHI)	2.38
STAN DEV	.92
SKEWNESS	1.52
KURTOSIS	30.43

CACO3	6.10
NITROGEN KJ	.000
ORG CARBON	.00
COLOR	5Y5/4
DOM CONST	TRG. MAT. 95
SEC CONST	FORAMS

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SEDIMENT SIZE AND COMPOSITION DATA

CRUISE 914269 SAMPLE 62A LATITUDE 21 42.0 N LONGITUDE 115 25.0 E
 CORER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 1097.0 TAKEN 12JUN69 MARSDFN SQ. 0
 ANALYZED 24NOV69

ITEM NO.-CORE NO.: 1017-03

SUBSAMPLE I.D. 62.8
BOT. OF INTERVAL (CM) .0

INTERPOLATION .250

PHI	MM	WEIGHT	PERCENT	OF	SEDIMENT	IN	EACH	SIZE	CLASS
<-2	>4.000	.00							
-2	4.000	.00							
-1	2.000	.13							
0	1.000	.27							
1	.500	2.53							
2	.250	10.57							
3	.125	16.73							
4	.062	37.61							
5	.031	12.54							
6	.016	5.71							
7	.008	3.02							
8	.004	2.02							
9	.002	2.35							
>10	<.001	6.50							

SEDIMENT TYPE SANDY SILT

GRAVEL (>2 MM)	.00		
SAND (.062-.2.00MM)	30.24		
SILT (.004-.062MM)	58.89		
CLAY (<.004 MM)	10.86		
MODE CLASS 1	4.50		
MODE FREQ. 1	37.61		
MEDIAN	4.52		
MEAN (MM)	.036		
MEAN (PHI)	4.81		
STAN DEV	1.96		
SKWNESS	.57		
KURTOSIS	1.46		
CACO3	16.70		
NITROGEN KJ	.000		
ORG CARBON	.00		
COLOR	10Y3/2		
DOM CONST	NO SAND		
SEC CONST	FRACTION		

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SEDIMENT SIZE AND COMPOSITION DATA

CRUISE 914929 SAMPLE 630 LATITUDE 10 36.0 N LONGITUDE 108 6.0 E
Corer type DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 31.0 TAKEN 17 MAY 69 MARSDEN SQ. 0
ANALYZED 24 NOV 69

ITEM NO.-CORE NO.: 1017- 04

SUBSAMPLE I.D. 63.0
BOT. OF INTERVAL (CM) .0

INTERPOLATION .250

PHI MM (WEIGHT OF SEDIMENT IN EACH SIZE CLASS)

<-2	>4.000	.00
-2	4.000	.58
-1	2.000	.32
0	1.000	1.67
1	.500	21.42
2	.250	74.51
3	.125	1.51
4	.062	.00
5	.031	.00
6	.016	.00
7	.008	.00
8	.004	.00
9	.002	.00
>10	<.001	.00

SEDIMENT TYPE SAND

GRAVEL (>2 MM)	.58
SAND (.062-.2.00MM)	99.42
SILT (.004-.062MM)	.00
CLAY (<.004 MM)	.00

MODE CLASS 1
MODE FREQ. 1
PHI MM

STAN DEV	2.50
SKEWNESS	74.51
KURTOSIS	.00
CACO3	2.33
NITROGEN KJ	.207
ORG CARBON	2.27
COLOR	.64
DOM CONST	-.84
SEC CONST	6.98

TRG.MAT.90	.00
SHL.FRAGS	.00
SY5/4	.00

CRUISE 914929 SAMPLE 639 LATITUDE 10 46.0 N LONGITUDE 109 28.0 E TAKEN 21JUL69 MARSDEN SO. 0
CORER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 228.0 ANALYZED 24NOV69

ITEM NO. #CORE NO.: 1017- 05

SUBSAMPLE I.D. 63.9
BOT. OF INTERVAL(CM) .0

INTERPOLATION .250

PHI	MM	WEIGHT	PERCENT	OF	SEDIMENT	IN	EACH	SIZE	CLASS	†
<-2	>4.000	.00								
-2	4.000	.00								
-1	2.000	.00								
0	1.000	.00								
1	.500	.00								
2	.250	.00								
3	.125	.00								
4	.062	1.43								
5	.031	12.17								
6	.016	15.13								
7	.008	12.83								
8	.004	11.18								
9	.002	12.50								
>10	<.001	34.70								

SEDIMENT TYPE	SILTY CLAY	
GRAVEL (>2 MM)	.00	
SAND (.062-.2.00MM)	.00	
SILT (.004-.062MM)	41.61	
CLAY (<.004 MM)	58.39	
MODE CLASS 1	6.50	
MODE FREQ. 1	15.13	
MEDIAN	8.75	
MEAN (MM)	.004	
MEAN (PHI)	8.13	
STAN DEV	1.80	
SKEWNESS	-.09	
KURTOSIS	-1.33	
CACO3	11.70	
NITROGEN KJ	.000	
ORG CARBON	.00	
COLOR	10Y3/2	
DOM CONST.	FORAMS 95	
SEC CONST	TRG.MAT.5	

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SEDIMENT SIZE AND COMPOSITION DATA

CRUISE 914929 SAMPLE 643 LATITUDE 10 40.0 N LONGITUDE 109 7.0 E TAKEN 21 JUL 69
 CORER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 118.0 MARSDEN SQ. 0
 ANALYZED 24 NOV 69

ITEM NO.-CORE NO.: 1017-06

SUBSAMPLE I.D. 64.3
BOT. OF INTERVAL (CM) .0

INTERPOLATION .250

PHI MM % WEIGHT PERCENT

<-2	>4.000	.00
-2	4.000	2.74
-1	2.000	.40
0	1.000	1.26
1	.500	14.59
2	.250	73.86
3	.125	1.28
4	.062	.66
5	.031	.18
6	.016	.55
7	.008	.55
8	.004	1.01
9	.002	.73
>10	<.001	2.19

SEDIMENT TYPE

GRAVEL (>2 MM)	2.74
SAND (.062-.200MM)	91.39
SILT (.004-.062MM)	1.94
CLAY (<.004 MM)	3.93

MODE CLASS 1 2.50
MODE FREQ. 1 73.86

MEDIAN	2.41
MEAN (MM)	.173
MEAN (PHI)	2.53
STAN DEV	1.60
SKWNESS	1.21
KURTOSIS	11.31

CACO ₃	13.90
NITROGEN KJ	.000
ORG CARBON	.00
COLOR	SY5/4
DOM CONST	TRG.MAT.95
SEC CONST	SHL.FRAG5

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SEDIMENT SIZE AND POSITION DATA

CRUISE 914929 SAMPLE 645 LATITUDE 10° 2.0' N LONGITUDE 107° 43.0' E
 CORER TYPE PLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 22.0

ITEM NO. • CORE NO. : 1017- 07

SUBSAMPLE I.D. 64.5
BOT. OF INTERVAL(CM) .0

INTERPOLATION .250

PHI MM (WEIGHT PERCENT OF SEDIMENT IN EACH SIZE CLASS)

<-2	>4.000	.00
-2	4.000	4.82
-1	2.000	3.78
0	1.000	12.83
1	.500	51.26
2	.250	26.66
3	.125	.65
4	.062	.00
5	.031	.00
6	.016	.00
7	.008	.00
8	.004	.00
9	.002	.00
>10	<.001	.00

SEDIMENT TYPE SAND

GRAVEL (>2 MM)	4.82
SAND (.062-.2.00MM)	95.18
SILT (.004-.062MM)	.00
CLAY (<.004 MM)	.00

MODE CLASS 1	1.50
MODE FREQ. 1	51.26

MEDIAN	1.56
MEAN (MM)	.368
MEAN (PHI)	1.44
STAN DEV	1.04
SKENNESS	-.57
KURTOSIS	1.66

CACO3	9.10
NITROGEN KJ	.000
ORG CARBON	.00
COLOR	5Y5/4
DOM CONST	TRG-MAT.80
SEC CONST	SHLFRAG18

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SEDIMENT SIZE AND C. POSITION DATA

CRUISE 914269 SAMPLE 657 LATITUDE 21° 27.0' N LONGITUDE 114° 31.0' E
 CORER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 1006.0

ITEM NO.-CORE NO.: 1017-0 08

SUBSAMPLE I.D. 65.7
BOT. OF INTERVAL (CM) .0

INTERPOLATION .250

PHI MM (WEIGHT PERCENT OF SEDIMENT IN EACH SIZE CLASS)

<-2	>4.000	.00
-2	4.000	2.54
-1	2.000	2.78
0	1.000	6.53
.1	.500	8.91
.2	.250	7.19
.3	.125	2.36
.4	.062	18.83
.5	.031	18.32
.6	.016	11.20
.7	.008	4.67
.8	.004	3.15
.9	.002	4.20
>10	<.001	9.33

SEDIMENT TYPE SANDY SILT

GRAVEL (>2 MM)	2.54
SAND (.062-.2.00MM)	27.76
SILT (.004-.062MM)	53.01
CLAY (<.004 MM)	16.68

MODE CLASS 1	1.50
MODE FREQ. 1	8.91
MODE CLASS 2	4.75
MODE FREQ. 2	20.05

MEDIAN	5.05
MEAN (MM)	.037
MEAN (PHI)	4.75
STAN DEV	2.95
SKEWNESS	-.03
KURTOSIS	-.46

CAC03	8.80
NITROGEN KJ	.000
ORG CARBON	.00
COLOR	56Y4/2
DOM CONST	TRG-MAT-60
SEC CONST	FORAMS 35

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SEDIMENT SIZE AND COMPOSITION DATA

CRUISE 914929 SAMPLE 659 LATITUDE 10 48.0 N LONGITUDE 109 44.0 E TAKEN 22JUL69 MARSDEN SG. 0
COPPER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 43.0 ANALYZED 24NOV69

ITEM NO.-CORE NO.: 1017-09

SUBSAMPLE 1-D.
BOT. OF INTERVAL (CM) 65.9

INTERPOLATION .250

PHI MM (WEIGHT PERCENT OF SEDIMENT IN EACH SIZE CLASS)

<-2	>4.000	.00
-2	4.000	12.17
-1	2.000	15.57
0	1.000	26.86
1	.500	22.45
2	.250	22.26
3	.125	.69
4	.062	.00
5	.031	.00
6	.016	.00
7	.008	.00
8	.004	.00
9	.002	.00
>10	<.001	.00

SEDIMENT TYPE SAND

GRAVEL (>2 MM)	12.17
SAND (.062-.2.00MM)	87.83
SILT (.004-.062MM)	.00
CLAY (<.004 MM)	.00

MODE CLASS 1	.50
MODE FREQ. 1	26.86
MODE CLASS 2	2.25
MODE FREQ. 2	23.71

MEDIAN	.82
MEAN (MM)	.577
MEAN (PHI)	.79
STAN DEV	1.36
SKEWNESS	-.11
KURTOSIS	-.85

CACO ₃	.00
NITROGEN KJ	.000
ORG CARBON	.00
COLOR	SY5/4
DOM CONST	9T2.
SEC CONST	90 SHLFRAG10

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SEDIMENT SIZE AND CLASS POSITION DATA

CRUISE 914929 SAMPLE 668 LATITUDE 10° 1.0' N LONGITUDE 107° 58.0' E
 CORER TYPE DLS LENGTH (CM) .0 PENETRATION(CM) .0 DEPTH (M) 26.0 TAKEN 17 MAY 69 MARSDEN SQ. 0
 ANALYZED 24 NOV 69

ITEM NO. - CORE NO.: 1017- 10

SUBSAMPLE I.D. 66.8
BOT. OF INTERVAL (CM) .0

INTERPOLATION .250

PHI	MM	WEIGHT	PERCENT	OF	SEDIMENT	IN	EACH	SIZE	CLASS	†
<-2	>4.000	.00								
-2	4.000	.10								
-1	2.000	.39								
0	1.000	.92								
1	.500	1.96								
2	.250	71.11								
3	.125	25.52								
4	.062	.00								
5	.031	.00								
6	.016	.00								
7	.008	.00								
8	.004	.00								
9	.002	.00								
>10	<.001	.00								

SEDIMENT	TYPE	SAND
GRAVEL (>2 MM)		10
SAND (.062-.2.00MM)		99.90
SILT (.004-.062MM)		.00
CLAY (<.004 MM)		.00
MODE CLASS 1		2.50
MODE FREQ. 1		71.11
MEDIAN		2.65
MEAN (MM)		.154
MEAN (PHI)		2.70
STAN DEV		.63
SKEWNESS		-.33
KURTOSIS		4.21
CACO ₃		6.80
NITROGEN KJ		.000
ORG CARBON		.00
COLOR		5Y4/4
DOM CONST		TRG. MAT. 95
SEC CONST		SHLFRAG52

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE 914929 SAMPLE 676 LATITUDE 10° 31.0' N LONGITUDE 108° 23.0' E
 CORER TYPE D-s LENGTH (CM) .0 PENETRATION(CM) .0 DEPTH (M) 36.0 TAKEN 20JUL69 MARSDEN SG. 0
 ANALYZED 24NOV69

ITEM NO.-CORE NO.: 1017- 11

SUBSAMPLE I.D. 67.6
 BOT. OF INTERVAL (CM) .0

INTERPOLATION .250
 PHI MM (WETWEIGHT PERCENT OF SEDIMENT IN EACH SIZE CLASS)

<-2	>4.000	.00
-2	4.000	12.35
-1	2.000	6.18
0	1.000	4.91
1	.500	3.48
2	.250	34.05
3	.125	18.94
4	.062	3.28
5	.031	1.99
6	.016	1.87
7	.008	1.87
8	.004	2.67
9	.002	1.00
>10	<.001	7.40

SEDIMENT TYPE SAND

GRAVEL (>2 MM) 12.35
 SAND (.062-.2.00MM) 67.57
 SILT (.004-.062MM) 9.01
 CLAY (<.004 MM) 11.07

MODE CLASS 1 -1.50
 MODE FREQ. 1 12.35
 MODE CLASS 2 2.50
 MODE FREQ. 2 34.05

MEDIAN 2.68
 MEAN (MM) .149
 MEAN (PHI) 2.74
 STAN DEV 2.93
 SKEWNESS .39
 KURTOSIS .75

CACO3 31.20
 NITROGEN KJ .000
 ORG CARBON .00
 COLOR 10Y5/2
 DOM CONST TRG-MAT 65
 SEC CONST GSTR 25

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SEDIMENT SIZE AND COMPOSITION DATA

CRUISE 914929 SAMPLE 689 LATITUDE 11° 17.0' N LONGITUDE 109° 8.0' E
 CORER TYPE D₄₅ LENGTH (CM) .0 PENETRATION (CM) .0 DEPTH (M) 228.0 TAKEN 21 JULY 69
 MARSDEN SO. 0 ANALYZED 24 NOV 69

ITEM NO. & CORE NO.: 1017-12

SUBSAMPLE I.D.O.
BOT. OF INTERVAL (CM) 68.9

INTERPOLATION .250

PHI	MM	WEIGHT	PERCENT	OF	SEDIMENT	IN	SIZE	CLASS
<-2	>4.000	.00	.00					
-2	4.000	5.06	5.06					
-1	2.000	1.90	1.90					
0	1.000	2.53	2.53					
1	.500	1.27	1.27					
2	.250	12.66	12.66					
3	.125	13.92	13.92					
4	.062	.00	.00					
5	.031	.63	.63					
6	.016	.00	.00					
7	.008	11.39	11.39					
8	.004	43.04	43.04					
9	.002	7.59	7.59					
>10	<.001	.00	.00					

SEDIMENT TYPE SANDY CLAY

GRAVEL (>2 MM) 5.06
 SAND (.062-.2 MM) 32.28
 SILT (.004-.062 MM) 12.03
 CLAY (<.004 MM) 50.63

MODE CLASS 1 -1.50
 MODE FREQ. 1 5.06

MODE CLASS 2 3.25
 MODE FREQ. 2 14.91

MODE CLASS 3 8.50
 MODE FREQ. 3 43.04

MEDIAN 7.91
 MEAN (MM) .015
 MEAN (PHI) 6.01
 STAN DEV 3.33
 SKEWNESS -.41
 KURTOSIS -.66

CACO₃ 5.70
 NITROGEN KJ .000
 ORG CARBON .00
 COLOR 5Y5/4
 DOM CONST TRG-MAT .60
 SEC CONST FORAMS 35

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SEDIMENT SIZE AND POSITION DATA

CRUISE 914929 SAMPLE 690 LATITUDE 10 55.0 N LONGITUDE 108 54.0 E
CORER TYPE PLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 42.0

ITEM NO. CORE NO.: 1017-13

NO DATA

SUBSAMPLE I.D.	69.0
CACO ₃	.00
NITROGEN KJ	.000
ORG CARBON	.00
COLOR	
DOW CONST	NO SAND
SEC CONST	F RACTTON

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CRUISE 914269 SAMPLE 724 LATITUDE 21 1.0 N LONGITUDE 115 40.0 E
 CORER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 2012.0 TAKEN 11 JUN 69 MARSDEN SG. 0
 ANALYZED 24 NOV 69

ITEM NO.-CORE NO.: 1017- 14

SUBSAMPLE I.D.
BOT. OF INTERVAL (CM) 72.4

INTERPOLATION .250

PHI	MM	WEIGHT	PERCENT	OF	SEDIMENT	IN	EACH	SIZE	CLASS
<-2	>4.000	.00							
-2	4.000	.40							
-1	2.000	.40							
0	1.000	1.11							
1	.500	5.32							
2	.250	62.42							
3	.125	9.52							
4	.062	4.17							
5	.031	4.17							
6	.016	4.56							
7	.008	1.59							
8	.004	1.19							
9	.002	1.19							
>10	<.001	3.97							

SEDIMENT	TYPE	SAND
GRAVEL (>2 MM)		
SAND (.062-.2.00MM)		40
SILT (.004-.062MM)		70.77
CLAY (<.004 MM)		14.48
CLAY		6.35
MODE CLASS 1		2.50
MODE FREQ. 1		62.42
MEDIAN		2.69
MEAN (MM)		.100
MEAN (PHI)		3.32
STAN DEV		1.98
SKEWNESS		.96
KURTOSIS		3.75
CACO ₃		.00
NITROGEN KJ		.000
ORG CARBON		.00
COLOR		5GY4/2
DOM CONST		TRG.MAT.99
SEC CONST		SHL.FRAG1

MCG 09005028

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE 914329 SAMPLE 741 LATITUDE 21 44.9 N LONGITUDE 116 28.0 E
 CORER TYPE D4s LENGTH (CM) .0 PENETRATION (CM) .0 DEPTH (M) 1100.0 TAKEN 17 JUN 69 MARSDEN SQ. 0
 ANALYZED 24 NOV 69

ITEM NO. & CORE NO.: 1017-15

SUBSAMPLE I.D. 74.1
BOT. OF INTERVAL (CM) .0

INTERPOLATION .250

PHI	MM	(WEIGHT	PERCENT	OF	SEDIMENT	IN	EACH	SIZE	CLASS
<-2	>4.000	.00							
-2	4.000	2.19							
-1	2.000	2.19							
0	1.000	8.76							
1	.500	16.79							
2	.250	26.28							
3	.125	3.65							
4	.062	3.65							
5	.031	7.30							
6	.016	3.65							
7	.008	10.95							
8	.004	.00							
9	.002	14.60							
>10	<.001	.00							

SEDIMENT TYPE SILTY SAND

GRAVEL (>2 MM) 2.19
 SAND (.062-.000MM) 57.56
 SILT (.004-.062MM) 25.55
 CLAY (<.004 MM) 14.60

MODE CLASS 1	2.50			
MODE FREQ. 1	26.28			
MODE CLASS 2	5.50			
MODE FREQ. 2	7.30			
MODE CLASS 3	7.50			
MODE FREQ. 3	10.95			
MEDIAN	2.76			
MEAN (MM)	.059			
MEAN (PHI)	4.08			
STAN. DEV.	3.20			
SKWNESS	.24			
KURTOSIS	-1.00			

CACO3 .00
 NITROGEN KJ .000
 ORG CARBON .00
 COLOR 5Y5/4
 DOM CONST TRG-MAT .80
 SEC CONST FORAMS 20

M 09005028

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE 914269 SAMPLE 911 LATITUDE 20 55.0 N LONGITUDE 114 55.0 E TAKEN 12 JUN 69
 CORER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 1189.0 MARSDFN SG. 0
 ANALYZED 24 NOV 69

ITEM NO. + CORE NO.: 1017- 16

SUBSAMPLE I.D. 91.1
BOT. OF INTERVAL (CM) .0

INTERPOLATION .250

PHI	MM	(WEIGHT	PERCENT	OF	SEDIMENT	IN	EACH	SIZE	CLASS)
<-2	>4.000		.00								
-2	4.000		.35								
-1	2.000		.12								
0	1.000		.49								
1	.500		2.03								
2	.250		63.02								
3	.125		27.85								
4	.062		2.97								
5	.031		.61								
6	.016		.31								
7	.008		.51								
8	.004		.00								
9	.002		.51								
>10	<.001		1.23								

SEDIMENT TYPE

GRAVEL (>2 MM) .35
 SAND (.062-.2.00MM) 93.51
 SILT (.004-.062MM) 4.40
 CLAY (<.004 MM) 1.74

MODE CLASS 1 2.50
 MODE FREQ. 1 63.02

MEDIAN 2.74
 MEAN (MM) .132
 MEAN (PHI) 2.92
 STAN DEV 1.14
 SKEWNESS 1.64
 KURTOSIS 19.24

CACO3 7.20
 NITROGEN KJ .000
 ORG CARBON .00
 COLOR 10Y4/2
 DOM CONST TRG.MAT.80
 SEC CONST FORAMS 19

MGG 09005028

SEDIMENT SIZE AND POSITION DATA

CRUISE 914329 SAMPLE 922 LATITUDE 21°33.2' N LONGITUDE 116°47.0' E
CORER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 2103.0 TAKEN 18JUN69 MARSDEN SG. 0
ANALYZED 24NOV64

ITEM NO.-CORE NO.: 1017- 17

SUBSAMPLE I.D. 92.2
BOT. OF INTERVAL (CM) .0

INTERPOLATION .250

PHI	MM	WEIGHT	PERCENT	OF	SEDIMENT	IN	EACH	SIZE	CLASS
<-2	>4.000	.00							
-2	4.000	2.01							
-1	2.000	2.15							
0	1.000	4.33							
1	.500	7.42							
2	.250	4.29							
3	.125	21.98							
4	.062	27.04							
5	.031	14.22							
6	.016	3.76							
7	.008	.20							
8	.004	2.03							
9	.002	2.03							
>10	<.001	8.53							

SEDIMENT TYPE SANDY SILT

GRAVEL (>2 MM)	2.01
SAND (.062-.2.00MM)	40.17
SILT (.004-.062MM)	45.23
CLAY (<.004 MM)	12.60
MODE CLASS 1	1.50
MODE FREQ. 1	7.42
MODE CLASS 2	4.25
MODE FREQ. 2	27.13
MEDIAN	4.29
MEAN (MM)	.051
MEAN (PHI)	4.28
STAN. DEV.	2.49
SKEWNESS	.21
KURTOSIS	.91
CACO3	13.90
NITROGEN KJ	.000
ORG CARBON	.00
COLOR	5GY3/2
DOM CONST	TRG-MAT-80
SEC CONST	SHLFRAG18

SEDIMENT SIZE AND C. POSITION DATA

CRUISE 914329 SAMPLE 937 LATITUDE 20 52.2 N LONGITUDE 116 22.5 E
 CORER TYPE DLS LENGTH (CM) : 0 PENETRATION (CM) : 0 DEPTH (M) : 329.0
 TAKEN 11JUN69 MARSDEN SO. : 0
 ANALYZED 24NOV69

ITEM NO.-CORE NO.: 1017- 18

SUBSAMPLE I.O. 93.7
BOT. OF INTERVAL(CM) .0

INTERPOLATION

but mm weight percent sediment of each in class

-2 4.000 .02

1.000 1.222

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• 0.31 5 2.78

7 .008 :19

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SEDIMENT TYPE

GRAVEL (>2 MM) .02

SILT (• 004-• 062M) 14.29

CEA 1 (2004) 303-318

3.25
3.21

MEAN (MM) • 094

STAN DEV 168

J. POLYMER SCIENCE: PART A

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NITROGEN KJ .000

10X4/2 COLOR

DOM SEC CONST TBG-MAT245 FORMS / 3

MGG 09005028

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CRUISE 914329 SAMPLE 945 LATITUDE 21 56.0 N PENETRATION(CM) .0

CORER TYPE Ds LENGTH(CM) .0 LONGITUDN 115 32.0 E DEPTH (M) 910.0

ITEM NO. CORE NO.: 1017- 19

SUBSAMPLE I.D. 94.5
BOT. OF INTERVAL (CM) .0

INTERPOLATION .250

PHI	MM	WEIGHT	PERCENT	OF	SEDIMENT	IN	EACH	SIZE	CLASS	#
<-2	>4.000	.00								
-2	4.000	.00								
-1	2.000	.03								
0	1.000	.03								
1	.500	.09								
2	.250	.33								
3	.125	.414								
4	.062	.36.73								
5	.031	18.62								
6	.016	11.23								
7	.008	7.09								
8	.004	5.02								
9	.002	5.17								
>10	<.001	11.52								

SEDIMENT TYPE CLAYEY SILT

GRAVEL (>2 MM)	.00
SAND (.062-.2.00MM)	4.61
SILT (.004-.062MM)	73.67
CLAY (<.004 MM)	21.72
MODE CLASS 1	4.50
MODE FREQ. 1	36.73
MEDIAN	5.41
MEAN (MM)	.015
MEAN (PHI)	6.02
STAN DEV	1.97
SKEWNESS	.46
KURTOSIS	-.22
CACO3	13.60
NITROGEN KJ	.000
ORG CARBON	.00
COLOR	10Y3/2
DOM CONST	FORAMS 59
SEC CONST	TRG.MAT40

MGG09005028

MGG 09005028

CRUISE 914559 SAMPLE 2207 LATITUDE 14 15.0 N LONGITUDE 109 20.0 E
CORER TYPE 24s LENGTH (CM) .0 PENETRATION(CM) .0 DEPTH (M) 104.2

ITEM NO.-CORE NO.: 1017- 20

NO DATA

SEDIMENT SIZE AND POSITION DATA

SUBSAMPLE I.D.	220.7
CACO ₃	.00
NITROGEN KJ	.000
ORG CARBON	.00
COLOR	5Y4/2
DOM CONST	NO SAND FR
SEC CONST	ACTION

MGG09005028

CRUISE 914559 SAMPLE 2211 LATITUDE 13 57.0 N LONGITUDE 109 26.0 E
CORER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 128.0
ITEM NO. - CORE NO.: 1017-21

SUBSAMPLE 1.D.
BOT. OF INTERVAL(CM) 221.1 .0

INTERPOLATION .250

PHI	MM	(WEIGHT	PERCENT	OF	SEDIMENT	IN	EACH	SIZE	CLASS
<-2	>4,000	.00							
-2	4,000	5.05							
-1	2,000	2.96							
0	1,000	6.74							
1	.500	7.97							
2	.250	9.96							
3	.125	11.86							
4	.062	10.77							
5	.031	6.59							
6	.016	5.77							
7	.008	6.36							
8	.004	4.49							
9	.002	2.99							
>10	<.001	18.49							

SEDIMENT TYPE SAN SIL CLAY

GRAVEL (>2 MM)	5.05			
SAND (.062-.2.00MM)	39.49			
SILT (.004-.062MM)	29.48			
CLAY (<.004 MM)	25.98			
MODE CLASS 1	-1.50			
MODE FREQ. 1	5.05			
MODE CLASS 2	3.75			
MODE FREQ. 2	11.87			
MODE CLASS 3	7.50			
MODE FREQ. 3	6.36			
MEDIAN	4.47			
MEAN (MM)	.041			
MEAN (PHI)	4.60			
STAN DEV	3.47			
SKEWNESS	.08			
KURTOSIS	-.92			
CAC03	22.50			
NITROGEN KJ	.000			
ORG CARBON	.00			
COLOR	5GY4/2			
DOM CONST	TRG.MAT.80			
SEC CONST	FORAMS 15			

MGG 09005028

CRUISE 914559 SAMPLE 2217 LATITUDE 14°35.0' N
 CORE TYPE DLS LENGTH (CM) .0 PENETRATION (CM) .0
 DEPTH (M) .0 LONGITUDE 109°15.0' E
 TAKEN 12 MAY 69 MARSDEN SQ. 0
 ANALYZED 24 NOV 69

ITEM NO.-CORE NO.: 1017- 22

SUBSAMPLE I.D. 221.7
BOT. OF INTERVAL (CM) 0

INTERPOLATION .250

22

•02
-2 4,000

• 12

• 48

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180 JU

10.41

2000 35

6.06
•002

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SEDIMENTARY SAN SILE CLAY

• 02 GRAVEL (>2 MM)

SAND STILT (0011-062MM) 1016

CLAY (>0.004 MM) 27.73

MODE CLASS 1 3.75

MODE FREQ. 1 20.29

MODE CLASS 2 6.25

10.53 MODE REG. 2

MEDIAN 5.02

MEAN (BHT) • 60

STAN DEV 2.59

J. CLIMATE, VOL. 19

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NITROGEN KJ .000

ORG CARBON
C6H₁₂O₆

DOM CONST TRG.MAT.90

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MGG 09005028

CRUISE 914559 SAMPLE 2220 LATITUDE 14° 0' N PENETRATION(CM) .0 LONGITUDE 109° 45' 0" E DEPTH (M) 241.4 TAKEN 14 MAY 69 MARSDEN S.Q. 0

ITEM NO.-CORE NO.: 1017- 23

SUBSAMPLE I.D.
ROT. OF INTERVAL (CM) 222.0

INTERPOLATION

PHI MM WEIGHT PERCENT OF SEDIMENT IN EACH SIZE CLASS)

<-2 >4.000 .00
-2 4.000 .00
-1 2.000 .03
0 1.000 .05
1 .500 .19
2 .250 1.10
3 .125 12.81
4 .062 28.45
5 .031 5.75
6 .016 9.17
7 .008 8.63
8 .004 5.61
9 .002 8.21
>10 <.001 19.99

SEDIMENT TYPE CLAYEY SILT

GRAVEL (>2 MM) .00
SAND (.062-.2 MM) 14.18
SILT (.004-.062 MM) 52.00
CLAY (<.004 MM) 33.82MODE CLASS 1 4.50
MODE FREQ. 1 28.45MODE CLASS 2 6.75
MODE FREQ. 2 9.37MEDIAN 6.16
MEAN (MM) .012
MEAN (PHI) 6.36
STAN DEV 2.44
SKEWNESS .20
KURTOSIS -1.24CACO₃ 9.90
NITROGEN KJ .000
ORG CARBON .00
COLOR 5GY4/2
DOM CONST FORAMS 75
SEC CONST TRG.MAT25

MGG 09005028

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE 914559 SAMPLE 2221 LATITUDE 14° 25.0' N LONGITUDE 109° 32.0' E
 CORER TYPE DLS LENGTH (CM) .0 PENETRATION(CM) .0 DEPTH (M) 182.9 TAKEN 14 MAY 69 MARSDEN SG. 0
 ANALYZED 24 NOV 64

ITEM NO.-CORE NO.: 1017- 24

SUBSAMPLE I.D. 222.1
BOT. OF INTERVAL (CM) .0

INTERPOLATION .250

PHI	MM	(WEIGHT	PERCENT	OF	SEDIMENT	IN	EACH	SIZE	CLASS
<-2	>4.000	.00							
-2	4.000	.03							
-1	2.000	.03							
0	1.000	.36							
1	.500	1.57							
2	.250	12.91							
3	.125	48.92							
4	.062	8.05							
5	.031	3.36							
6	.016	6.71							
7	.008	2.97							
8	.004	2.45							
9	.002	2.71							
>10	<.001	9.94							

SEDIMENT TYPE SILTY SAND

GRAVEL (>2 MM) .03
 SAND (.062-.2.00MM) 63.78
 SILT (.004-.062MM) 21.09
 CLAY (<.004 MM) 15.10

MODE CLASS 1 3.50
 MODE FREQ. 1 48.92
 MODE CLASS 2 6.50
 MODE FREQ. 2 6.71

MEDIAN 3.73
 MEAN (MM) .043
 MEAN (PHI) 4.55
 STAN DEV 2.28
 SKEWNESS .70
 KURTOSIS .91

CACO3 10.40
 NITROGEN KJ .000
 ORG CARBON .00
 COLOR 56Y4/2
 DOM CONST TRG-MAT 80
 SEC CONST FORAMS 15

M 09005028

SEDIMENT SIZE AND POSITION DATA

CRUISE 914559 SAMPLE 2222 LATITUDE 20 28.0 N LONGITUDE 114 46.0 E
 CORER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 135.3 TAKEN 30 JUN 69 MARSDEN SG. 0
 ANALYZED 24 NOV 69

ITEM NO. - CORE NO.: 1017- 25

SUBSAMPLE I.D.
BOT. OF INTERVAL (CM) 222.0

INTERPOLATION .250

PHI MM (WEIGHT PERCENT OF SEDIMENT IN EACH SIZE CLASS)

<-2	>4.000	.00
-2	4.000	.00
-1	2.000	.49
0	1.000	1.29
1	.500	5.57
2	.250	8.25
3	.125	23.23
4	.062	38.31
5	.031	8.01
6	.016	3.76
7	.008	2.34
8	.004	1.66
9	.002	1.97
>10	<.001	5.11

SEDIMENT TYPE SANDY SILT

GRAVEL (>2 MM)	.00
SAND (.062-.2.00MM)	38.84
SILT (.004-.062MM)	52.41
CLAY (<.004 MM)	8.75

MODE CLASS 1	4.50
MODE FREQ. 1	38.31

MEDIAN (MM)	4.27
MEAN (MM)	.046
MEAN (PHI)	4.44
STAN DEV	1.94
SKEWNESS	.54
KURTOSIS	2.09

CACO3	25.10
NITROGEN KJ	.000
ORG CARBON	.00
COLOR	5Y3/2
DOM CONST	TRG.MAT.70
SEC CONST	FORAMS 25

MCG 09005028

ANALYZED 24NOV69

LATITUDE 13° 50.0' N PENETRATION (CM) .0
LONGITUDE 109° 40.0' E DEPTH (M) 164.6

ITEM NO. • CORE NO.: 1017- 26

SUBSAMPLE I.D. 222.5
BOT. OF INTERVAL (CM) 0

INTERPOLATION

PHI MM (WEIGHT PERCENT OF SEDIMENT IN EACH SIZE CLASS)

<-2	>4.000	.00
-2	4.000	.00
-1	2.000	.03
0	1.000	.09
1	.500	.12
2	.250	.16
3	.125	.72
4	.062	11.17
5	.031	15.14
6	.016	13.42
7	.008	19.66
8	.004	1.09
9	.002	1.09
>10	<.001	37.30

SEDIMENT TYPE CLAYEY SILT

GRAVEL (> 2 MM)	.00
SAND (.062-.200MM)	1.12
SILT (.004-.062MM)	59.39
CLAY (<.004 MM)	39.48

1	1	1	1
1	2	2	2
1	1	1	1
1	2	2	2

MEDIAN	7.44
MEAN (MM)	.006
MEAN (PHI)	7.37
STAN DEV	2.12
SKEWNESS	.07
KURTOSIS	-1.05

NITROGEN KJ	• 000
ORG CARBON	• 00
COLOR	5GY4/2
DOM CONST	FORAMS 98
SEC CONST	TRG-MAT 1

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MGG 09005028

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE 914559 SAMPLE 2233 LATITUDE 21 30.0 N LONGITUDE 114 9.0 E TAKEN 30 JUN 69 MARSDEN SQ. 0
CORER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 82.3 ANALYZED 24 NOV 69

ITEM NO. CORE NO.: 1017-27

NO DATA

SUBSAMPLE I.D. 223.3

CACO ₃	.00
NITROGEN KJ	.000
ORG CARBON	.00
COLOR	SY3/2
DOM CONST	NO SAND FR
SEC CONST	ACTION

MGG 09005028

SEDIMENT SIZE AND POSITION DATA

CRUISE 914559 SAMPLE 2235 LATITUDE 21° 9.0' N LONGITUDE 114° 47.0' E TAKEN 30 JUN 69
 CORER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 91.4 MARSDEN SQ. 0
 ANALYZED 24 NOV 69

ITEM NO. • CORE NO.: 1017- 28

SUBSAMPLE I.D. 223.5
 BOT. OF INTERVAL (CM) .0

INTERPOLATION .250

PHI	MM	WEIGHT	PERCENT	OF	SEDIMENT	IN	EACH	SIZE	CLASS	↑
<-2	>4.000	.00								
-2	4.000	12.53								
-1	2.000	7.19								
0	1.000	10.85								
1	.500	23.15								
2	.250	9.98								
3	.125	2.09								
4	.062	4.65								
5	.031	7.96								
6	.016	5.66								
7	.008	4.34								
8	.004	2.65								
9	.002	2.30								
>10	<.001	6.64								

SEDIMENT TYPE SILTY SAND

GRAVEL (>2 MM)	12.53
SAND (.062-.2.00MM)	53.26
SILT (.004-.062MM)	22.62
CLAY (<.004 MM)	11.59
MODE CLASS 1	-1.50
MODE FREQ. 1	12.53
MODE CLASS 2	1.50
MODE FREQ. 2	23.15
MODE CLASS 3	5.50
MODE FREQ. 3	7.96
MEDIAN	1.83
MEAN (MM)	.147
MEAN (PHI)	2.76
STAN DEV	3.35
SKEWNESS	.34
KURTOSIS	-.48
CACO3	12.30
NITROGEN KJ	.000
ORG CARBON	.00
COLOR	56Y3/2
DOM CONST	TRG MAT. 90
SEC CONST	FORAMS 5

MGG 09005028

CRUISE 914559 SAMPLE 2702 LATITUDE 21 56.0 N TAKEN 06JUL69 MARSDEN SG. 0

CORER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 82.3 ANALYZED 24NOV69

ITEM NO. • CORE NO.: 1017- 29

SUBSAMPLE I.D. 270.2
BOT. OF INTERVAL (CM) .0INTERPOLATION .250
PHI MM | WEIGHT PERCENT OF SEDIMENT IN EACH SIZE CLASS ↑

<-2	>4.000	.00
-2	4.000	.00
-1	2.000	.03
0	1.000	.13
1	.500	.23
2	.250	.47
3	.125	3.73
4	.062	37.67
5	.031	17.47
6	.016	12.81
7	.008	6.49
8	.004	5.32
9	.002	4.33
>10	<.001	11.31

SEDIMENT TYPE CLAYEY SILT

GRAVEL (>2 MM)	.00
SAND (.062-.2.00MM)	4.59
SILT (.004-.062MM)	74.44
CLAY (<.004 MM)	20.97
MODE CLASS 1	4.50
MODE FREQ. 1	37.67
MEDIAN	5.39
MEAN (MM)	.016
MEAN (PHI)	5.98
STAN DEV	1.96
SKEWNESS	.45
KURTOSIS	-.06
CACO3	14.40
NITROGEN KJ	.000
ORG CARBON	.00
COLOR	5Y3/2
DOM CONST	FORAMS 95
SEC CONST	TRG.MAT.5

MGG 09005028

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE 914559 SAMPLE 2704 LATITUDE 20 43.0 N LONGITUDE 114 33.0 E
CORER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 135.3 TAKEN 30JUN69 MARSDEN SQ. 0
ANALYZED 24NOV69

ITEM NO.**CORE NO.: 1017- 30

SUBSAMPLE I.D. 270.4
BOT. OF INTERVAL(CM) .0

INTERPOLATION 250

PHI MM (WEIGHT PERCENT IN EACH SIZE CLASS)

<-2 >4.000 .00

2.52 1.32 -1.00

2.43
2.43

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>10 <.001 6.93

SEDIMENT TYPE - SILTY SAND

GRAVEL (>2 MM) 1.77
SAND (0.062-2.00MM) 72.06

SILT	(.004-.062MM)	15.16
CLAY	(<.004 MM)	11.01

MODE CLASS 1 2.50

MODE FREQ. 1 46.45 MODE CLASS 2

5.11 MODE FREQ. 2

MEDIAN MEAN (MM) 2.52 0.99

MEAN (PHI) STAN DEV 3.34 2.59

•64
1.12

CACO₃ NITROGEN V 1 12.00 0.00

ORG CARBON • 00
COLOR 56Y4/2

DOM CONST TRG.MAT.95
SEC CONST FORAMS 4

MGG09005028

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE 914559 SAMPLE 2706 LATITUDE 21 56.0 N TAKEN 07JUL69
 CORER TYPE DWS LENGTH(CM) .0 PENETRATION(CM) .0 MARSFN SG. 0
 BOT. OF INTERVAL (CM) 270.6 DEPTH (M) 102.4

ITEM NO.-CORE NO.: 1017- 31.

SUBSAMPLE I.D. 270.6
 BOT. OF INTERVAL (CM) .0

INTERPOLATION

PHI	MM	WEIGHT	PERCENT	OF	SEDIMENT	IN	EACH	SIZE	CLASS	↑
<-2	>4.000	.00	.00							
-2	4.000	57.16	57.16							
-1	2.000	15.65	15.65							
0	1.000	11.42	11.42							
1	.500	9.76	9.76							
2	.250	2.37	2.37							
3	.125	1.90	1.90							
4	.062	.28	.28							
5	.031	.32	.32							
6	.016	.00	.00							
7	.008	.13	.13							
8	.004	.93	.93							
9	.002	.00	.00							
>10	<.001	.19	.19							

SEDIMENT TYPE

SAND

GRAVEL (>2 MM) 57.16
 SAND (.062-.2.00MM) 41.10
 SILT (.004-.062MM) .73
 CLAY (<.004 MM) 1.02

MODE CLASS 1

MODE FREQ. 1 -1.50

MODE CLASS 2

MODE FREQ. 2 57.16

MODE CLASS 3

MODE FREQ. 3 .25

MEDIAN

MEAN (MM) -1.14

MEAN (PHI) 1.461

STAN DEV -.55

SKEWNESS 1.62

KURTOSIS 1.18

CACO3 8.37

NITROGEN KJ .00

ORG CARBON .00

COLOR 5Y5/4

DOM CONST TRG-WAT. 95

SEC CONST CORAL 3

MGG 09005028

SEDIMENT SIZE AND CLASS POSITION DATA

CRUISE 914929 SAMPLE 270A LATITUDE 10° 29.0' N LONGITUDE 109° 31.0' E
 CORER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 73.0 TAKEN 24JUL69 MARSDEN SG. 0
 ANALYZED 24NOV69

ITEM NO.-CORE NO.: 1017- 32

SUBSAMPLE I.D.
BOT. OF INTERVAL (CM) 270.8

INTERPOLATION .250
 PHI MM WEIGHT PERCENT
 <-2 >4,000 .00
 -2 4,000 .00
 -1 2,000 .00
 0 1,000 .12
 1 .500 .37
 2 .250 .29
 3 .125 .33
 4 .062 1.03
 5 .031 8.62
 6 .016 11.08
 7 .008 16.00
 8 .004 11.49
 9 .002 12.72
 >10 <.001 37.96

SEDIMENT TYPE SILTY CLAY

GRAVEL (>2 MM) .00
 SAND (.062-.00MM) 1.11
 SILT (.004-.062MM) 36.73
 CLAY (<.004 MM) 62.17

MODE CLASS 1 7.50
 MODE FREQ. 1 16.00

MEDIAN 9.08
 MEAN (MM) .003
 MEAN (PHI) 8.29
 STAN DEV 1.83
 SKEWNESS -.34
 KURTOSIS .16

CACO3 11.40
 NITROGEN KJ .000
 ORG CARBON .00
 COLOR 10Y4/2
 DOM CONST FORAMS 99
 SEC CONST TRG.MAT.1

MGG09005028

CRUISE 914559 SAMPLE 2712 LATITUDE 20 25.0 N LONGITUD 115 3.0 E
CORER TYPE Ds LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 135.3

ITEM NO.-CORE NO.: 1017- 33

SUBSAMPLE I.D.
BOT. OF INTERVAL(CM) 271.2

INTERPOLATION

PHI MM (WEIGHT PERCENT OF SEDIMENT IN EACH SIZE CLASS)

<-2	>4.000	.00
-2	4.000	8.94
-1	2.000	5.76
0	1.000	18.65
1	.500	37.96
2	.250	9.53
3	.125	2.23
4	.062	13.45
5	.031	1.23
6	.016	.41
7	.008	.55
8	.004	.07
9	.002	.07
>10	<.001	1.16

SEDIMENT TYPE SAND

GRAVEL(>2 MM)	8.94
SAND (.062-.200MM)	74.13
SILT (.004-.062MM)	15.63
CLAY (<.004 MM)	1.30
MODE CLASS 1	-1.50
MODE FREQ. 1	8.94
MODE CLASS 2	1.50
MODE FREQ. 2	37.96
MODE CLASS 3	4.50
MODE FREQ. 3	13.45
MEDIAN	1.42
MEAN (MM)	3.22
MEAN (PHI)	1.64
STAN DEV	1.95
SKEWNESS	.48
KURTOSIS	2.38
CACO3	.00
NITROGEN KJ	.000
ORG CARBON	.00
COLOR	SY5/4
DOM CONST	TRG.MAT.95
SEC CONST	FORAMS 4

MGG 09005028

SEDIMENT SIZE AND CLASS POSITION DATA

CRUISE 914559 SAMPLE 2719 LATITUDE 21 56.7 N LONGITUDE 117 46.0 E
 CORER TYPE PLs LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 201.4 TAKEN 07JUL69 MARSDFN SQ. 0
 ANALYZED 24NOV69

ITEM NO.-CORE NO.: 1017- 34

SUBSAMPLE I.D. 271.9
BOT. OF INTERVAL(CM) .0

INTERPOLATION .250

PHI MM (WEIGHT PERCENT OF SEDIMENT IN EACH SIZE CLASS)

<-2	>4.000	.00
-2	4.000	.11
-1	2.000	.27
0	1.000	.50
1	.500	4.13
2	.250	92.73
3	.125	2.26
4	.062	.00
5	.031	.00
6	.016	.00
7	.008	.00
8	.004	.00
9	.002	.00
>10	<.001	.00

SEDIMENT TYPE SAND

GRAVEL (>2 MM)	.11
SAND (.062-.2.00MM)	99.89
SILT (.004-.062MM)	.00
CLAY (<.004 MM)	.00
MODE CLASS 1	2.50
MODE FREQ. 1	92.73
MEDIAN	2.47
MEAN (MM)	.180
MEAN (PHI)	2.48
STAN DEV	.46
SKEWNESS	-.76
KURTOSIS	10.28
CACO3	.00
NITROGEN KJ	.00
ORG CARBON	.00
COLOR	SY5/4
DOM CONST	QTZ
SEC CONST	SHL.FRAG1

MGG 09005028

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE 914929 SAMPLE 2725 LATITUDE 11 37.0 N LONGITUDE 109 26.0 E TAKEN 25JUL69
 CORER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 118.0 MARSDEN SG. 0
 ANALYZED 24NOV64

ITEM NO. - CORE NO.: 1017- 35

SUBSAMPLE I.D.
BOT. OF INTERVAL(CM) 272.5

INTERPOLATION .250

PHI MM (WEIGHT PERCENT OF SEDIMENT IN EACH SIZE CLASS)

<-2	>4.000	35.48
-2	4.000	19.43
-1	2.000	4.04
0	1.000	6.23
1	.500	8.03
2	.250	1.34
3	.125	.95
4	.062	3.85
5	.031	3.12
6	.016	2.65
7	.008	2.94
8	.004	1.16
9	.002	3.54
>10	<.001	7.35

SEDIMENT TYPE SAND

GRAVEL (>2 MM)	54.91
SAND (.062-.2.00MM)	20.59
SILT (.004-.062MM)	12.46
CLAY (<.004 MM)	12.05

MODE CLASS 1	-2.50
MODE FREQ. 1	35.48

MODE CLASS 2	1.25
MODE FREQ. 2	8.19

MEDIAN	.60
MEAN (MM)	.433
MEAN (PHI)	1.21
STAN DEV	4.12
SKEWNESS	.52
KURTOSIS	-.31

CACO ₃	20.30
NITROGEN KU	.000
ORG CARBON	.00
COLOR	SY4/2
DOM CONST	TRG-MAT.80
SEC CONST	SHL 18

MGG 09005028

SEDIMENT SIZE AND POSITION DATA

CRUISE 914559 SAMPLE 272A LATITUDE 20 51.0 N LONGITUDE 114 13.0 E
 CORER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 82.3 TAKEN 30 JUN 69 MARSDEN SQ. 0
 ANALYZED 24 NOV 64

ITEM NO.-CORE NO.: 1017- 36

SUBSAMPLE I.D. 272.A.
BOT. OF INTERVAL(CM) 272.8.0

INTERPOLATION .250

PHI	MM	(WEIGHT	PERCENT	OF	SEDIMENT	IN	EACH	SIZE	CLASS
<-2	>4.000	.00							
-2	4.000	1.72							
-1	2.000	1.37							
0	1.000	12.66							
1	.500	41.71							
2	.250	15.38							
3	.125	1.06							
4	.062	1.99							
5	.031	5.30							
6	.016	5.66							
7	.008	3.56							
8	.004	2.10							
9	.002	1.10							
>10	<.001	6.39							

SEDIMENT TYPE SILTY SAND

GRAVEL (>2 MM) 1.72
 SAND (.062-.2.00MM) 72.18
 SILT (.004-.062MM) 16.51
 CLAY (<.004 MM) 9.59

MODE CLASS 1 1.50

MODE FREQ. 1 41.71

MODE CLASS 2 6.00

MODE FREQ. 2 5.82

MEDIAN 1.84
 MEAN (MM) .138
 MEAN (PHI) 2.06
 STAN DEV 2.74
 SKEWNESS .66
 KURTOSIS .82

CACO3 11.30
 NITROGEN KJ .000
 ORG CARBON .00
 COLOR 56Y3/2
 DOM CONST TRG-MAT.96
 SEC CONST FORMS 1

M 09005028

CRUISE 914329 SAMPLE 2753 LATITUDE 21 52.0 N LONGITUDE 115 54.0 E
 CORER TYPE D-E LENGTH (CM) .0 PENETRATION(CM) .0 DEPTH (M) 880.0
 TAKEN 17JUN69 MARSDEN S.Q. 0
 ANALYZED 24NOV69

ITEM NO. - CORE NO. : 1017- 37

SUBSAMPLE I.D.
BOT. OF INTERVAL (CM) 275.3

INTERPOLATION .250

PHI	MM	(WEIGHT	PERCENT	OF	SEDIMENT	IN	EACH	SIZE	CLASS
<-2	>4.000	.00							
-2	4.000	.03							
-1	2.000	.03							
0	1.000	.10							
1	.500	.36							
2	.250	3.41							
3	.125	40.53							
4	.062	32.77							
5	.031	7.37							
6	.016	4.01							
7	.008	1.16							
8	.004	2.33							
9	.002	2.72							
>10	<.001	5.17							

SEDIMENT	TYPE	SANDY SILT	
GRAVEL (>2 MM)		.03	
SAND (.062-.2.00MM)		44.44	
SILT (.004-.062MM)		45.32	
CLAY (<.004 MM)		10.22	
MODE CLASS 1		3.75	
MODE FREQ.	1	.42.16	
MEDIAN		4.15	
MEAN (MM)		.041	
MEAN (PHI)		4.62	
STAN DEV		1.78	
SKEWNESS		.91	
KURTOSIS		3.04	
CAC03		14.90	
NITROGEN KJ		.000	
ORG CARBON		.00	
COLOR		10Y3/2	
DOM CONST		TRG-MAT.55	
SEC CONST		FORAMS 45	

MGG 09005028

CRUISE 914269 SAMPLE 2755 LATITUDE 20 50.0 N LONGITUDE 115 29.0 E
 CORER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 3017.0 MARSDEN SQ. 0
 TAKEN 11JUN69 ANALYZED 24NOV69

ITEM NO.-CORE NO.: 1017- 38

SUBSAMPLE I.D. 275.5
BOT. OF INTERVAL(CM) .0

INTERPOLATION

.250

PHI	MM	(WEIGHT	PERCENT	OF	SEDIMENT	IN	EACH	SIZE	CLASS
<-2	>4.000	.00							
-2	4.000	6.05							
-1	2.000	1.19							
0	1.000	2.86							
1	.500	5.00							
2	.250	75.87							
3	.125	9.02							
4	.062	.00							
5	.031	.00							
6	.016	.00							
7	.008	.00							
8	.004	.00							
9	.002	.00							
>10	<.001	.00							

SEDIMENT TYPE	SAND
GRAVEL (>2 MM)	6.05
SAND (.062-.00MM)	93.95
SILT (.004-.062MM)	.00
CLAY (<.004 MM)	.00
MODE CLASS 1	-1.50
MODE FREQ. 1	6.05
MODE CLASS 2	2.50
MODE FREQ. 2	75.87
MEDIAN	2.46
MEAN (MM)	.218
MEAN (PHI)	2.20
STAN DEV	1.15
SKEWNESS	-1.14
KURTOSIS	4.99
CAC03	12.50
NITROGEN KJ	.000
ORG CARBON	.00
COLOR	10Y3/2
DOM CONST	TRG.MAT.85
SEC CONST	SHLFRAG15

MGG 09005028

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE	SAMPLE	LATITUDE	LONGITUDE	MARSDEN SQ.	U
CORER TYPE	LENGTH(CM)	PENETRATION(CM)	DEPTH (M)	ANALYZED	24NOV69
ITEM NO. & CORE NO.:	1017- 39				
SUBSAMPLE I.D.	275.9				
BOT. OF INTERVAL (CM)	.0				
INTERPOLATION	.250				
PHI	MM	(WEIGHT	PERCENT	OF	SEDIMENT
<-2	>4.000	.00			
-2	4.000	.91			
-1	2.000	1.20			
0	1.000	2.09			
1	.500	5.41			
2	.250	7.58			
3	.125	16.14			
4	.062	41.43			
5	.031	9.93			
6	.016	4.19			
7	.008	1.63			
8	.004	2.57			
9	.002	1.45			
>10	<.001	5.48			
SEDIMENT TYPE	SANDY SILT				
GRAVEL (>2 MM)		.91			
SAND (.062-.2.00MM)		32.41			
SILT (.004-.062MM)		57.18			
CLAY (<.004 MM)		9.50			
MODE CLASS	1	4.50			
MODE FREQ.	1	41.43			
MEDIAN		4.40			
MEAN (MM)		*046			
MEAN (PHI)		4.43			
STAN DEV		2.09			
SKEWNESS		*27			
KURTOSIS		1.80			
CACO3		19.90			
NITROGEN KJ		*000			
ORG CARBON		*00			
COLOR		10Y3/2			
DOM CONST		FORAMS 80			
SEC CONST		TRG. MAT15			

MGG 09005028

SEDIMENT SIZE AND CLASS POSITION DATA

CRUISE 914929 SAMPLE 2769 LATITUDE 11°29.0' N .0 PENETRATION(CM) 0
 CORER TYPE D-s LENGTH(CM) .0 DEPTH (M) 109.0

ITEM NO. & CORE NO.: 1017- 40

SUBSAMPLE I.D.
BOT. OF INTERVAL (CM) 276.9

INTERPOLATION .250

PHI	MM	WEIGHT	PERCENT	OF	SEDIMENT	IN	EACH	SIZE	CLASS
<-2	>4.000	.00							
-2	4.000	37.71							
-1	2.000	11.92							
0	1.000	23.53							
1	.500	24.21							
2	.250	2.56							
3	.125	.08							
4	.062	.00							
5	.031	.00							
6	.016	.00							
7	.008	.00							
8	.004	.00							
9	.002	.00							
>10	<.001	.00							

SEDIMENT TYPE SAND

GRAVEL (>2 MM) 37.71
 SAND (.062-.2.00MM) 62.29
 SILT (.004-.062MM) .00
 CLAY (<.004 MM) .00

MODE CLASS 1 -1.50
 MODE FREQ. 1 37.71
 MODE CLASS 2 1.00
 MODE FREQ. 2 25.95

MEDIAN -.15
 MEAN (MM) 1.084
 MEAN (PHI) -.12
 STAN DEV 1.32
 SKEWNESS .06
 KURTOSIS -1.32

CACO3 .00
 NITROGEN KJ .00
 ORG CARBON .00
 COLOR 5Y5/4
 DOM CONST TRG.MAT.75
 SEC CONST ECHFRAG25

109005028

SEDIMENT SIZE AND CLASS POSITION DATA

CRUISE 914559 SAMPLE 2770 LATITUDE 21 6.3 N LONGITUDE 114 21.5 E
 COKER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 805.0

ITEM NO.-CORE NO.: 1017- 41

SUBSAMPLE I.D. 277.0
BOT. OF INTERVAL (CM) 0

INTERPOLATION .250

PHI	MM	(WEIGHT	PERCENT	OF	SEDIMENT	IN	EACH	SIZE	CLASS
<-2	>4.000	.00							
-2	4.000	.13							
-1	2.000	.50							
0	1.000	2.27							
1	.500	18.98							
2	.250	19.34							
3	.125	2.16							
4	.062	9.24							
5	.031	10.09							
6	.016	8.27							
7	.008	4.68							
8	.004	8.15							
9	.002	6.96							
>10	<.001	9.24							

SEDIMENT TYPE SAN SIL CLAY

GRAVEL (>2 MM) .13
 SAND (.062-.2.00MM) 43.25
 SILT (.004-.062MM) 32.28
 CLAY (<.004 MM) 24.35

MODE CLASS 1 2.00
 MODE FREQ. 1 21.28

MODE CLASS 2 5.00
 MODE FREQ. 2 10.22

MODE CLASS 3 8.50
 MODE FREQ. 3 8.15

MEDIAN 4.74
 MEAN (MM) .035
 MEAN (PHI) 4.84
 STAN DEV 3.03
 SKEWNESS .18
 KURTOSIS -1.17

CACO3 13.80
 NITROGEN KJ .000
 ORG CARBON .00
 COLOR 10Y3/2
 DOM CONST TRG. MAT. 95
 SEC CONST FORAMS 3

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE 914269 SAMPLE 2778 LATITUDE 20 47.0 N LONGITUDE 115 11.0 E
 CORER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 1189.0 TAKEN 12JUN69 MARSDEN SG. 0
 ANALYZED 24NOV69

ITEM NO.—CORE NO.: 1017-42

SUBSAMPLE I.D. 277.8
 BOT. OF INTERVAL (CM) 277.8

INTERPOLATION .250

PHI	MM	WEIGHT	PERCENT	OF	SEDIMENT	IN	EACH	SIZE	CLASS
<-2	>4.000	.00	0						
-2	4.000	5.06	5.06						
-1	2.000	1.44	1.44						
0	1.000	1.50	1.50						
1	.500	4.45	4.45						
2	.250	54.55	54.55						
3	.125	17.21	17.21						
4	.062	1.13	1.13						
5	.031	12.84	12.84						
6	.016	.00	.00						
7	.008	.20	.20						
8	.004	.30	.30						
9	.002	1.01	1.01						
>10	<.001	.30	.30						

SEDIMENT TYPE

SAND

GRAVEL (>2 MM) 5.06
 SAND (.062-.00MM) 79.15
 SILT (.004-.062MM) 14.18
 CLAY (<.004 MM) 1.62

MODE CLASS 1 -1.50

MODE FREQ. 1 .5.06

MODE CLASS 2 2.50

MODE FREQ. 2 54.55

MODE CLASS 3 5.50

MODE FREQ. 3 12.94

MEDIAN 2.70

MEAN (MM) .136

MEAN (PHI) 2.99

STAN DEV 1.78

SKEWNESS .15

KURTOSIS 2.98

CACO3 .00
 NITROGEN KJ .000
 ORG CARBON .00
 COLOR 10Y4/2
 DOM CONST TR6.WAT.95.
 SEC CONST SHL.FRAG2

MGG 09005028

SEDIMENT SIZE AND C. POSITION DATA

CRUISE 914329 SAMPLE 2783 LATITUDE 21 39.8 N LONGITUDE 116 5.0 E TAKEN 18JUN69 MARSDEN SG. 0
CORER TYPE 24s LENGTH (CM) .0 PENETRATION(CM) .0 DEPTH (M) 1820.0 ANALYZED 24NOV69

ITEM NO. #CORE NO.: 1017- 43

NO DATA

SUBSAMPLE I.D.	278.3
CACO ₃	.00
NITROGEN KJ	.000
ORG CARBON	.00
COLOR	N
DOM CONST	0 SAND
SEC CONST	FRACTION

MGG 09005028

SEDIMENT SIZE AND POSITION DATA

CRUISE 914269 SAMPLE 2789 LATITUDE 21 13.0 N LONGITUDE 114 53.0 E
 CORER TYPE DLS LENGTH(CM) 0 PENETRATION(CM) 0 DEPTH (M) 823.0

ITEM NO.-CORE NO.: 1017- 44

SUBSAMPLE I.D.
BOT. OF INTERVAL (CM) 278.9

INTERPOLATION

.250

PHI	MM	WEIGHT	PERCENT	OF	SEDIMENT	IN	EACH	SIZE	CLASS	Y
<-2	>4.000	.00	0.00							
-2	4.000	26.01	26.01							
-1	2.000	.02	.02							
0	1.000	14.38	14.38							
1	.500	17.01	17.01							
2	.250	15.33	15.33							
3	.125	3.38	3.38							
4	.062	7.94	7.94							
5	.031	5.34	5.34							
6	.016	2.99	2.99							
7	.008	1.94	1.94							
8	.004	.73	.73							
9	.002	.97	.97							
>10	<.001	3.96	3.96							

SEDIMENT TYPE

SAND

GRAVEL (>2 MM)	26.01
SAND (.062-.2.00MM)	50.12
SILT (.004-.062MM)	18.21
CLAY (<.004 MM)	5.66

MODE CLASS 1

-1.50
MODE FREQ. 1 26.01

MODE CLASS 2

1.75
MODE FREQ. 2 17.14

MODE CLASS 3

4.50
MODE FREQ. 3 7.94

MEDIAN

1.51
MEAN (MM)
MEAN (PHI)
STAN DEV
SKEWNESS
KURTOSIS

CACO₃ 14.30
 NITROGEN KJ .000
 ORG CARBON .00
 COLOR SY3/2
 DOM CONST TRG. MAT. 85
 SEC CONST FORAMS 10

MGG 09005028

SEDIMENT SIZE AND POSITION DATA

CRUISE 914929 SAMPLE 2976 LATITUDE 10 21.0 N LONGITUDE 109 21.0 E
 CORER TYPE DLS LENGTH(CM) .0 PENETRATION(CM) .0 DEPTH (M) 64.0 TAKEN 24JUL69 MARSDEN SQ. 0
 ANALYZED 24NOV69

ITEM NO. - CORE NO.: 1017- 4B
 SUBSAMPLE I.D. 297.6
 BOT. OF INTERVAL (CM) .0

INTERPOLATION	PHI MM	WEIGHT	PERCENT	OF	SEDIMENT	IN	EACH	SIZE	CLASS
<-2	>4.000	.00							
-2	4.000	84.55							
-1	2.000	.81							
0	1.000	2.11							
1	.500	2.28							
2	.250	.33							
3	.125	.16							
4	.062	.00							
5	.031	.81							
6	.016	.81							
7	.008	2.44							
8	.004	.81							
9	.002	1.63							
>10	<.001	3.25							
					SEDIMENT TYPE	SAND			
					GRAVEL (>2 MM)	84.55			
					SAND (.062-.2.00MM)	5.69			
					SILT (.004-.062MM)	4.07			
					CLAY (<.004 MM)	5.69			
					MODE CLASS 1	-1.50			
					MODE FREQ. 1	84.55			
					MEDIAN	-1.45			
					MEAN (MM)	1.432			
					MEAN (PHI)	-.57			
					STAN DEV	2.80			
					SKEWNESS	1.45			
					KURTOSIS	7.17			
					CAC03	.00			
					NITROGEN KJ	.000			
					ORG CARBON	.00			
					COLOR	5Y5/4			
					DOM CONST	CORAL 90			
					SEC CONST	TRG.MAT 5			